Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

Claim 1 (currently amended): A composition-comprising consisting essentially of

colloidal Fe₃O₄ particles coated with a biotin-binding protein.

Claim 2 (currently amended): A composition as claimed in claim 1. The composition of

claim 1, wherein the biotin-binding protein is avidin or streptavidin.

Claim 3 (currently amended): A composition as claimed in claim 2 The composition of

<u>claim 2</u>, wherein the biotin-binding protein is streptavidin.

Claim 4 (withdrawn): A method for synthesis of a composition as claimed in claim 3,

said method comprising the steps of incubating colloidal Fe₃O₄ particles with a biotin-

binding protein.

Claim 5 (withdrawn): A method as claimed in claim 4, further comprising the steps of:

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- a) forming colloidal Fe₃O₄ particles by mixing aqueous FeCl₂ with aqueous FeCl₃ and adding aliquots of the mixture to an alkaline solution;
- b) adding a biotin-binding protein.

Claim 6 (withdrawn): A method as claimed in claim 5, wherein the molar ratio of FeCl₂: FeCl₃ is between 1:1.5 and 1:2.

Claim 7 (withdrawn): A method as claimed in claim 6, wherein the molar ratio of FeCl₂: FeCl₃ is 1:1.5.

Claim 8 (withdrawn): A method as claimed in claim 7, wherein the aqueous FeCl₂ is FeCl₂.4H₂0.

Claim 9 (withdrawn): A method as claimed in claim 8, wherein the aqueous FeCl₃ is FeCl₃.6H₂O.

Claim 10 (withdrawn): A method as claimed in claim 9, wherein said forming step further includes adding an ammonia solution to the mixture of FeCl₂ and FeCl₃.

Claim 11 (withdrawn): A method as claimed in claim 10, wherein the biotin-binding protein is added in excess.

Claim 12 (withdrawn): A method as claimed in claim 11, wherein the biotin-binding

protein is streptavidin.

Claim 13 (withdrawn): A method of immobilising a biotinylated compound comprising

incubating said biotinylated compound in solution in the presence of a composition as

claimed in claim 1.

Claim 14 (withdrawn): A method as claimed in claim 13, wherein the biotinylated

compound is selected from the group consisting of a nucleic acid molecule, a protein, and

a peptide.

Claim 15 (withdrawn): A method as claimed in claim 14, further comprising the step of

separating the biotinylated compound and the composition from said solution.

Claim 16 (withdrawn): A method as claimed in claim 15, wherein said separating step

further comprises the step of magnetically attracting the biotinylated compound and the

composition to a surface.

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